22222222222 22222222222222222222222222	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	UUU
---	--	---

000000 00 00 00 00	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB		2222222 22 22 22 22 22 22 22 22 22 22 2	
		\$		

```
G 5
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
OBJECT
VO4-000
                                         TABLE
                                                                                                                    0 F
                                                                                                                                    CONTENTS
          forward routine

cdu$prepare_object_file: novalue,

cdu$write_object_file: novalue,

write_header_records: novalue,

write_global_symbol_record: novalue,

write_psect_record: novalue,

write_table_records: novalue,

write_user_routine_records: novalue,

write_eom_record: novalue;
                                                                                     EXTERNAL
                                                                                                                                     REFERENCES
                                                              external routine
cdu$collect_table_blocks,
cdu$lookup_child,
cdu$report_rms_error,
cli$get_value,
lib$free_vm,
lib$get_vm;
                                                                external
                                                                                    cdu$facility_string: descriptor, cdu$gl_root_node: ref node, cdu$gl_table: pointer;
                                                               $shr_msgdef(cdu,17,local,
(openout,severe),
(writeerr,severe)
```

VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER: [CDU.SRC]OBJECT.B32:1

```
H 5
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
OBJECT
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[CDU.SRC]OBJECT.B32;1
                       OBJECT
                                                                                    CONTROL
                                                                     FILE
                                                                                                           BLOCKS
                                    ! The following items define the RMS control blocks needed to create and ! write the object file.
                                    OWN
                                                object_related_rsa: block[nam$c_maxrss,byte],
object_related_nam: $nam(),
                                                object_esa: block[nam$c_maxrss.byte],
object_rsa: block[nam$c_maxrss.byte],
object_nam: $nam(
                                                                        esa=object_esa,
ess=%allocation(object_esa),
rlf=object_related_nam,
                                                                        rsa=object_rsa,
rss=%allocation(object_rsa)
                                                dbuffer(object_spec.nam$c_maxrss),
object_fab: $fab(
                                                                       dnm='.OBJ',
fna=object_spec+8,
fns=%allocation(object_spec)-8,
                                                                        fac=put,
                                                                        fop=<sqo,nam,ofp>,
                                                                        nam=object_nam,
                                                                        org=seq.
                                                                        rfm=var
                    9999
                                                object_rab: $rab(
                                                                        fab=object_fab,
                                                                        rac=seq,
                                                                        rop=wbh
                        0860
```

```
I 5
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
OBJECT
VO4-000
                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[CDU.SRC]OBJECT.B32:1
     12290123345678901234456789012345678
12290123345678901234456789012345678
                                                                       This routine is called to prepare the object file for writing of the object records. All we do is save enough information so that we can create it after the CLDs are
                                               Description:
                                                                        compiled.
                                                                                                    By reference, the FAB used to read the first CLD file.
                                               Parameters:
                                                                        cld_fab
                                               Returns:
                                                                        Nothing.
                                               Notes:
                                           GLOBAL ROUTINE cdusprepare_object_file(cld_fab: pointer) = BEGIN
                                                                                                                                                              : novalue
                                           bind
                                                         cld_nam = .cld_fab[fab$l_nam]: block[,byte];
                                              We don't want to create the object file now, because the CLDs may have errors and we'll end up with a null file. However, we do want to save the NAM block and resultant strings from the CLDs so we can used them as
                                              the related name when we create the object file.
                                           ch$move(.cld_nam[nam$b_bln],cld_nam, object_related_nam);
ch$move(.cld_nam[nam$b_rss],.cld_nam[nam$l_rsa], object_related_rsa);
                                           return:
                            0892
                                          END:
                                                                                                                                     .TITLE
                                                                                                                                                   OBJECT
\V04-000\
                                                                                                                                     .PSECT
                                                                                                                                                   SPLITS, NOWRT, NOEXE, 2
                                                                                                           00000 P.AAA:
                                                                                                                                     .ASCII
                                                                                                                                                   1.0BJ1
                                                                                                                                      .PSECT
                                                                                                                                                   SOWNS, NOEXE, 2
                                                                                                            00000 OBJECT_RELATED_RSA:
                                                                                                                                      BLKB
                                                                                                            00100 OBJECT_RELATED_NAM:
                                                                                                                                     BYTE
BYTE
BYTE
LONG
BYTE
BYTE
BYTE
BYTE
BYTE
BYTE
BYTE
                                                                                                           00101
00102
00103
00104
00108
00109
0010A
0010B
0010C
                                                                                         000000000
                                                                                                     00000
```

00000000

```
J 5
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
                                                                                                                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [CDU.SRC]OBJECT.B32;1
00000000 00110 .LONG

0000# 00114 .WORD

0000# 00124 .WORD

0000000 00130 .LONG

00 00138 .BYTE

00 00138 .BYTE

00 00138 .BYTE

00 0013B .BYTE

00 0013B .BYTE

00 0013C .LONG

00000000 0014C .LONG

00000000 0014C .LONG

00000000 0015C .LONG

000000000 0015C .LONG

000000000 0015C .LONG

000000000 0015C .LONG

000000000 .LONG

00000000 .LONG
                                                                                                                                                                                       . LONG
. WORD
                                                                                                                                                                                                                                                   0
0[8]
0[3]
0[3]
                                                                                                                                                                                        .WORD
                                                                                                                                                                                       .LONG
                                                                                                                                                                                       LONG
BYTE
BYTE
BYTE
BYTE
BYTE
BYTE
BYTE
                                                                                                                                                                                                                                                    0[2]
                                                                                                                                                                                       LONG
LONG
LONG
LONG
                                                                                                                                                                                         LONG
                                                                                                                                                                                                                                                    0[5]
                                                                                                                                                                                                                                                    255
                                                                                                                                                                                         .BLKB
                                                                               0025F
00260 OBJECT_RSA:
                                                                                                                                                                                           .BLKB
                                                                                                                                                                                                                                                   255
                                                                                                                                                                                        .BLKB
                                                                            0035F
00360 OBJECT_NAM:
                                                                                                                                                                                       BYTE
BYTE
BYTE
BYTE
                                                                                                                                                                                                                                                 96
-1
   00000000°
                                                                           00361
00363
00364
00368
00368
00368
00368
00374
00384
00394
00398
00398
                                                                                                                                                                                                                                                   0
                                                                                                                                                                                        ADDRESS OBJECT_RSA
                                                                                                                                                                                       BYTE
BYTE
BYTE
FF 0036A
00 0036B
00000000 0036C
00000000 00370
0000# 00384
00000# 0038A
0000000 00390
00 00398
00 00398
00 00398
00 00398
00 00398
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00 00398
00 00398
                                                                                                                                                                                                                                                  -1
                                                                                                                                                                                                                                                   0
                                                                                                                                                                                    ADDRESS OBJECT_ESA
.ADDRESS OBJECT_RELATED_NAM
.WORD O[8]
.WORD O[3]
.WORD O[3]
                                                                                                                                                                                          .LONG
                                                                                                                                                                                          .LONG
                                                                                                                                                                                        BYTE
BYTE
BYTE
BYTE
BYTE
LONG
LONG
LONG
LONG
                                                                                                                                                                                                                                                    0[5]
                                                                                                                                                                                                                                                    0[5]
                                                                                                                                                                                          .LONG
```

```
14-Sep-...

00FF 003CO OBJECT_SPEC:
.WORD 255
.BYTE 0.0
.ADDRESS OBJECT_SPEC+8
.BLKB 255
                                                                                                            15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
                                                                                                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [CDU. SRC]OBJECT.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (4)
                                                                       003C2 .BYTE
003C4 .ADDE
003C8 .BLKE
004C7 .BLKE
004C8 OBJECT_FAB:
   000000000
                                                                        004C8 OBJECT_FAB:
BYTE
004C9
004CA
004CC
004D0
004D4
004D8
004DE
004DE
004DF
004E0
004E4
004E5
004E6
004E7
004E8
004FC
0
                                                                                                                                                                                      BYTE.
                                                                                                                                                                                                                                                300
 553648192
.ADDRESS OBJECT_NAM
.ADDRESS OBJECT_SPEC+8
.ADDRESS P.AAA
                              00000000
  00000000
                                               00
                                                                                                                                                                                                                                               000
  00000000
                                                                                                                                                                                    BYTE.
                                                                                                                                                                                                                                              68
                                                                                                                                                                                      . WORD
 .LONG
                                                                                                                                                                                                                                                 1024
                                                                                                                                                                                   .LONG
                                                                                                                                                                                      . LONG
                                                                                                                                                                                                                                               Č[3]
                                                                                                                                                                                      . WORD
                                                                                                                                                                                      . LONG
                                                                                                                                                                                      BYTE.
                                                                                                                                                                                     .WORD
                                                                                                                                                                                      . WORD
   00000000
                                                                                                                                                                                     LONG
```

OBJECT VO4-000			00000000 00544 00000000 00548 00 00540 00 0054E 00 0054E 00 0054F 00000000 00550 00000000 00554 00000000 00558	84 23:45:30	
				.EXTRN CDU\$COLLECT_TABLE_BLOCKS .EXTRN CDU\$LOOKUP_CHILD .EXTRN CDU\$REPORT_RMS_ERROR .EXTRN CLI\$GET_VACUE, LIB\$FREE_VM .EXTRN LIB\$GET_VM, CDU\$FACILITY_STRING .EXTRN CDU\$GL_ROOT_NODE .EXTRN CDU\$GL_TABLE .PSECT \$CODE\$,NOWRT,2	
; Routine Size:	0000° CF 0000° CF 32 bytes,	50 56 50 66 50 04 B6 Routine Base:	007C 00000 04 AC DO 00002 28 AO DO 00006 01 A6 9A 0000A 50 28 0000E 02 A6 9A 00014 50 28 00018 04 0001F	.ENTRY CDU\$PREPARE_OBJECT_FILE, Save R2,R3,R4,R5,-: 0875 R6 MOVL CLD_FAB, R0 : 0879 MOVL 40(R0), R6 MOVZBL 1(R6), R0 : 0887 MOVC3 R0, (R6), OBJECT_RELATED_NAM : 0888 MOVZBL 2(R6), R0 : 0888 MOVC3 R0, a4(R6), OBJECT_RELATED_RSA : 0892	

```
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
OBJECT
VO4-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[CDU.SRC]OBJECT.B32;1
                       1612345667890123456789012345678901234567890123456
1612345667890123456789012345678901234567890123456
                                                           This routine is called after all the CLD files have been compiled. It is responsible for creating and writing the object file containing all of the generated table blocks.
                                      Description:
                                                           along with related descriptive information.
                                      Parameters:
                                                           None.
                                                           Nothing.
                                      Returns:
                                      Notes:
                                   GLOBAL ROUTINE cduswrite_object_file = BEGIN
                                                                                               : novalue
                                   local
                                               status: long,
                                               final_area: pointer;
                                      Begin by creating the object file. Get any value specified on the /OBJECT qualifier to use as the spec for the object file.
                                   cli$get_value(dtext('OBJECT'),object_spec);
                                   ! Create and connect to the object file. Any errors are fatal.
                                   status = $create(fab=object_fab);
if not .status then
                                   cdu$report_rms_error(msg(cdu$_openout),object_fab);
status = $connect(rab=object_rab);
if not .status then
                                               cdu$report_rms_error(msg(cdu$_openout),object_rab);
                                   ! Write the header records.
                                   write_header_records();
                                   ! Write the global symbol definition record.
                                   write_global_symbol_record();
                                      Allocate a large area to contain the final CLI table. Collect all of the table blocks into that area.
                                   status = lib$get_vm(cdu$gl_table[vec_l_table_size], final_area);
check(.status, .status);
cdu$collect_table_blocks(.final_area);
                                   ! Write the PSECT definition record.
                                   write_psect_record();
                                   ! Write the table blocks themselves.
                                   write_table_records();
```

```
! Write the records needed to define and store user routine addresses.
write_user_routine_records();
! Write the end-of-module record.
write_eom_record();
return;
END:
                                                                               .PSECT $PLIT$, NOWRT, NOEXE, 2
                                        010E0006
00000000
                                                         00004 P.AAC:
0000C P.AAB:
            00
                        43 45
                                                                               .ASCII
                                                                                           \OBJECT\<0><0>
17694726
                                                        00010
                                                                               .ADDRESS P.AAC
                                                                               .EXTRN
                                                                                          SYS$CREATE, SYS$CONNECT
                                                                               .PSECT
                                                                                           SCODES, NOWRT, 2
                                                001C 00000
9E 00002
9E 00009
C2 0000E
9F 00011
9F 00015
FB 00019
                                                                                           CDU$WRITE_OBJECT_FILE, Save R2,R3,R4
CDU$REPORT_RMS_ERROR, R4
OBJECT_FAB, R3
#4, SP
OBJECT_SPEC
P.AAR
                                                                               .ENTRY
MOVAB
                                                                                                                                                                    0906
                            00000000
                       54
53
5E
                                              00
                                                                              MOVAB
SUBL 2
PUSHAB
                                              04
C3
CF
                                  FEF8
0000'
                                                                                                                                                                    0917
                                                                               PUSHAB
                                                                                           P.AAB
                                                                                           #2. CLISGET_VALUE
      0000000G
                       00
                                                                               CALLS
                                                        00020
00022
00029
00020
                                                                              PUSHL
CALLS
MOVL
                                                    DD
                                                                                                                                                                    0921
                                                                                           #1, SYS$CREATE
RO, STATUS
STATUS, 1$
                       00
52
0B
      0000000G
                                                    FB
                                                   DO
                                                    E8
DD
                                                                               BLBS
                                                                                                                                                                    0922
                                                        0002F
                                                                               PUSHL
                            001110A4
                                                    DD
                                                        00031
                                                                               PUSHL
                                                                                          #2, CDU$REPORT_RMS_ERROR
OBJECT_RAB
#1, SYS$CONNECT
R0, STATUS
STATUS, 2$
OBJECT_RAB
#1118372
                                                    FB
FB
                       64
                                                        00037
                                                                               CALLS
                                     50
                                                        0003A 1$:
                                                                               PUSHAB
                                                                                                                                                                    0924
                       00
52
00
      0000000G
                                                        0003D
                                                                               CALLS
                                                   D0
E8
9F
DD
                                                        00044
                                                                               MOVL
                                                        00047
0004A
0004D
00053
                                                                               BLBS
                                                                                                                                                                    0925
                                                                               PUSHAB
                            001110A4
                                                                              PUSHL
CALLS
CALLS
CALLS
                                                                                                 CDUSREPORT RMS ERROR
WRITE HEADER RECORDS
WRITE GLOBAL SYMBOL RECORD
            0000V
                                                                                                                                                                    0930
0934
0939
                                                        00056
                       CF
                                                        0005B
                                                    DD
C1
FB
                                                                               PUSHL
                                                        00060
                                                                                           #16, CDU$GL_TABLE, -(SP)
#2, LIB$GET_VM
R0, STATUS
STATUS, 3$
                                                                               ADDL3
CALLS
 7E 00000000G
                                                        00062
                       00
52
09
      0000000G
                                                        0006A
                                                    DO
E8
                                                                               MOVL
                                                        00071
                                                                                                                                                                    0940
                                                        00074
                                                                               PUSHL
                                                    DD
                                                        00077
                                                                                           STATUS
      0000000G
                       00
                                                        00079
                                                                                           #1, LIB$SIGNAL
FINAL_AREA
                                                    DD
                                                         08000
                                                                               PUSHL
                                                                                                                                                                    0941
                                                                                           #1, CDUSCOLLECT_TABLE_BLOCKS
      0000000G
                       00
                                                        00082
                                                                               CALLS
```

VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER: [CDU. SRC]OBJECT.B32;1

(5)

OBJECT VO4-000

OBJECT V04-000		15-Se 14-Se	sep-1984 23:45:30 ep-1984 11:58:25	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[CDU.SRC]OBJECT.B32	Page 10
	0000V CF 0000V CF 0000V CF 0000V CF	00 FB 00089 00 FB 0008E 00 FB 00093 00 FB 00098 04 0009D	CALLS #0, CALLS #0, CALLS #0, CALLS #0, RET	WRITE_PSECT_RECORD WRITE_TABLE_RECORDS WRITE_USER_ROUTINE_RECORDS WRITE_EOM_RECORD	: 0945 : 0949 : 0953 : 0957 : 0961
; Routine Size: 158 byte	es, Routine Base: \$00	DE\$ + 0020			

```
OBJECT
VO4-000
                                                                                            15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
                                                                                                                              VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[CDU.SRC]OBJECT.B32;1
    build_descriptor(work_dsc,17,.variable_ptr);
status = $asctim(timbuf=work_dsc);
                                  check(.status, .status);
                                  variable_ptr = .variable_ptr + 17;
                                  ! Write the module header into the object file. Any error is fatal.
                                  object_rab[rab$\_rbf] = hdr;
object_rab[rab$\w_rsz] = .variable_ptr - hdr;
                                  status = $put(rab=object_rab);
if not .status then
                                             cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                                  ! Set up the fixed portion of a language name record.
                                  hdr[obj$b_rectyp] = obj$c_hdr;
hdr[mhd$b_hdrtyp] = mhd$c_lnm;
                       1038
1039
                                  ! Move in our language name.
    308
309
                       1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
                                  ch$move(.cdu$facility_string[len],.cdu$facility_string[ptr], hdr + 2);
                                  ! Write the language name record in the object file.
                                 object_rab[rab$w_rsz] = 2 + .cdu$facility_string[len];
status = $put(rab=object_rab);
if not .status then
    315
                                             cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
    316
317
318
319
                                  return;
                                  END:
                                                                                                          .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                          30 03 00014 P.AAD:
                                                                                                          .ASCII <3>\0-0\
                                                                                                          .EXTRN
                                                                                                                    SYSSASCTIM, SYSSPUT
                                                                                                          .PSECT $CODE$, NOWRT, 2
                                                                               OFFC 00000 WRITE_HEADER_RECORDS:
                                                                                                                     Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
SYS$PUT, R11
                                                                                                           WORD
                                                                                                                                                                                       0974
                                                            000000006
000000006
                                                                                      00002
                                                                                                          MOVAB
                                                                                 999E44000B0
                                                                                                                     CDU$LOOKUP_CHILD, R10
OBJECT_RAB, R9
-264(SP), SP
                                                                            ŎŎ
                                                                                                          MOVAB
                                                                                      00010
                                                                                                          MOVAB
                                                                                     00015
0001A
                                                                            ČE
                                                                                                         MOVAB
CLRW
CLRB
                                                                                                                                                                                       0987
0989
0990
0996
                                                                                                                     HDR
                                                                           AE
8F
03
                                                                                      0001D
                                                                                                                     HDR+2
#2048, HDR+3
                                                                                      00020
00026
00028
                                                                  0800
                                                                                                          MOVW
                                                                                                         PUSHL
PUSHL
CALLS
                                                                            00
02
50
                                                                                                                     CDUSGL ROOT NODE #2, CDUSLOOKUP_CHILD RO, CHILD
                                                            0000000G
```

							1	-Sep	-1984 23:45 -1984 11:58	:30 VAX-11 Bliss-32 V4.0-742 Pa :25 DISK\$VMSMASTER:[CDU.SRC]OBJECT.B32;1	ge 13 (6)
			50	10	19 A7	13 O	0034		BEQL	1\$ 16(CHILD), RO	: 0997
OD	AE	10	A7 50 58 58	0E 10	197 500 AF7 515 506 506	06 00 08 00 06 00 06 00 07 00 07 00	03A 03C 042 046		INCL MOVC3 MOVAB MOVZBL ADDL2	RO RO, 16(CHILD), HDR+5 HDR+6, RO 16(CHILD), VARIABLE_PTR RO, VARIABLE_PTR	0999
0E	AE	OD FE94	56 AE D9 58	FE83	15 C9 56 56	7A 00 70 00 78 00 78 00 78 00	004D 004F 0054 0058	15:	MOV7DI	OBJECT_NAM+59, R6 R6, HDR+5 R6, aobject_nam+76, HDR+6 HDR+6[R6], VARIABLE_PTR	1001
			6A 57	00000000G	AE 462 002 500 147 A60	D 00 B 00	104A 104D 104F 1054 1058 1064 1066 1066 1072	2\$:	MOVB MOVC3 MOVAB PUSHL PUSHL CALLS MOVL BEQL MOVAB	HDR+6LR6J, VARIABLE_PTR #2 CDU\$GL_ROOT_NODE #2, CDU\$LOORUP_CHILD R0, CHILD 3\$	1002 1003 1009
	68	10	56 50 A7 58	10 01 01	14 A7 A6 50 A648	E O	078		MOVZBL MOVAB MOVC3 MOVAB	16(CHILD), R6 1(R6), R0 R0, 16(CHILD), (VARIABLE_PTR) 1(R6)[VARIABLE_PTR], VARIABLE_PTR 4\$	1010
		04	88 6E AE	0000	CF 11	00 00	0081 0086 0088 0080 0090 0094 0096 0099	3\$: 4\$:	MOVL	4\$ P.AAD, (VARIABLE_PTR)+ #17, WORK_DSC VARIABLE_PTR, WORK_DSC+4 -(SP)	1012 1010 1014 1020
		0000000G	00 57	08	7E 04 50	PF 00 04 00 08 00	0094 0096 0099 009B 00A2		MOVL CLRQ PUSHAB CLRL CALLS MOVL	WORK_DSC -(SP) #4, SYS\$ASCTIM R0, STATUS STATUS, 5\$ STATUS	1021
		00000000G 28	09 00 58 A9 50 58	08 08		D 00 B 00 C 00 DE 00	00A8 00AA 00B1 00B4	5\$:	MOVL BLBS PUSHL CALLS ADDL2 MOVAB	STATUS, 5\$ STATUS #1, LIB\$SIGNAL #17, VARIABLE_PTR HDR, OBJECT_RAB+40 HDR, RO	1022 1023 1027 1028
22	A9		58 6B 57 0F		50 59 01 50	00 00 00 00	00BD 00C2 00C4 00C7		MOVAB SUBW3 PUSHL CALLS MOVL BLBS PUSHL PUSHL CALLS	RO, VARIABLE_PTR, OBJECT_RAB+34 R9 #1, SYS\$PUT RO, STATUS STATUS, 6\$	1029
		00000000G 08	00 AE	00111004	59 8F 02 8F	00000	OCF OOF	6\$:	PUSHL PUSHL CALLS MOVW MOVZWL	R9 #1118420	1030 1031 1035 1040
0A 22	AE A9		56 50 60 56	0100 000000006 000000006	02	00 00 08 00 11 00 00 00	00E2 00E9 00F0 00F5		MOVZWL MOVL MOVC3 ADDW3 PUSHL CALLS	#2, CDU\$REPORT_RMS_ERROR #256, HDR CDU\$FACILITY_STRING, R6 CDU\$FACILITY_STRING+4, R0 R6, (R0), HDR+2 #2, R6, OBJECT_RAB+34 R9	1040 1044 1045
			6B 57 0F		01	R 00	10F C		BLBS PUSHL	#1, SYS\$PUT RO, STATUS STATUS, 7\$ R9	1046 1047
		0000000G	00	00111004	8F 02	00 00 8 00 00 00 00 00 00 00 00 00)102)105)107)10D)114	75:	PUSHL CALLS RET	#1118420 #2, CDU\$REPORT_RMS_ERROR	1051

OBJECT VO4-000 f 6 15-Sep-1984 23:45:30 14-Sep-1984 11:58:25

VAX-11 Bliss-32 V4.0-742 Page 14 DISK\$VMSMASTER:[CDU.SRC]OBJECT.B32;1 (6)

; Routine Size: 277 bytes, Routine Base: \$CODE\$ + OOBE

: 378 1109 1 END;

					00)3C	00000	WRITE_	GLOBAL SY	MBOL_RECORD:		10/5
			SE 6E	0101 02	8F	9E 80 94 80 94	00002 00007 0000C		MOVAB MOVW CLRB	MBOL_RECORD: Save R2,R3,R4,R5 -256(SP), SP #257, GSD GSD_SYM+1		1065
		03	AE	05 06	AE AE O3 O0 O2	B94	0000F 00013 00016 00019		MOVW CLRB CLRL PUSHL	GSD_SYM+1 #10, GSD_SYM+2 GSD_SYM+4 GSD_SYM+5		1079 1081 1082 1083 1084 1089
		000000006	00	0000000G		0400B57	0001B 00021 00028		PUSHL CALLS TSTL	CDUSGL ROOT NODE #2, CDUSLOORUP_CHILD CHILD 1\$		1090
			51	10	50 0E A0 51	94	25000		BEQL	16(CHILD), R1	:	1091
OA	AE	10	AO		51	D6 28 11	00032		MOVC3	R1. 16(CHILD), GSD_SYM+9		1092
08	AE	0A 0000°	AE 50 DF	0000:	CF CF SO	90	00038 0003A 00040 00045	15:	BRB MOVB MOVZBL MOVC3	OBJECT_NAM+59, GSD_SYM+9 OBJECT_NAM+59, RO RO, @OBJECT_NAM+76, GSD_SYM+10		1094 1095 1096
		0000° 0000° 0000°	OF CF CF	0A	50 6E AE 0B	9A 28 9E 9B A0	0004C 00051 00057 0005C	2\$:	MOVC3 MOVAB MOVZBW ADDW2	GSD, OBJECT_RAB+40 GSD_SYM+9, OBJECT_RAB+34 #11, OBJECT_RAB+34 OBJECT_RAB		1095 1096 1101 1102
		0000000G	00 11	0000.	CF 01 50	9F FB E8	0005C 00060 00067 0006A		PUSHAB CALLS BLBS PUSHAB	#1, SYSSPUT STATUS, 3\$		1103
		000000006	00	00111004	CF 8F 02	DD FB 04	0006E 00074 0007B	3\$:	PUSHL CALLS RET	OBJECT RAB #1118420 #2, CDU\$REPORT_RMS_ERROR		1105

; Routine Size: 124 bytes, Routine Base: \$CODE\$ + 01D3

```
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
OBJECT
VO4-000
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[CDU.SRC]OBJECT.B32:1
    This routine is responsible for writing the psect definition record, which defines the psect in which all the blocks reside.
                                        Description:
                                        Parameters:
                                                              None.
                                        Returns:
                                                              Nothing.
                                        Notes:
                                     ROUTINE write_psect_record = BEGIN
                                                                                                   : novalue
                                     local
                                                 status: long,
gsd: block[256,byte];
                                     bind
                                                  gsd_psc = gsd + 1: block[,byte];
                                        Set up the fixed portion of the psect record. We get the psect size out
                                        of the primary vector block.
                                    gsd[obj$b_rectyp] = obj$c_gsd;
gsd_psc[gps$b_gsdtyp] = gsd$c_psc;
gsd_psc[gps$b_align] = 2;
gsd_psc[gps$w_flags] = gps$m_pic + gps$m_rel + gps$m_rd;
gsd_psc[gps$l_alloc] = .cdu$gl_table[vec_l_table_size];
                                     ! Now we want the psect name.
                         1142
1143
1144
1146
1147
1148
1149
1151
1153
1156
1157
1159
1160
                                     begin
                                                 name = ctext('CLI$TABLES'): vector[,byte];
                                     ch$move(1+.name[0],name[0], gsd_psc[gps$b_namlng]);
                                     ! Write the psect definition record into the object file. Errors are fatal.
                                     object_rab[rab$l_rbf] = gsd;
object_rab[rab$w_rsz] = 1 + 8 + 1+.gsd_psc[gps$b_namlng];
status = $put(rab=object_rab);
if not .status then
                                                  cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                                     return:
                                     END:
```

J 6 15-Sep-1984 23:45:30 VAX-11 Bliss-32 V4.0-742 Page 18 14-Sep-1984 11:58:25 DISK\$VMSMASTER:[CDU.SRC]OBJECT.B32;1 (8)

NAME =

P.AAE

.PSECT \$CODE\$, NOWRT, 2

					0	07C	00000	WRIT	E_PSECT_REC	ORD:	****	
			56 5E	0000°	CF	9E 9E	00002 00007 0000C		MOVAB MOVAB	Save R2,R3,R4,R5,R6 OBJECT RAB+34, R6 -256(SP), SP	1121	1
		02	6E AE AE	89	01 02 8F	90 98	0000C 0000F 00013		MOVW MOVB MOVZBW	#1, GSD #2, GSD PSC+1 #137 GSD PSC+2	; 1135 ; 1137 ; 1138 ; 1139	
		05	AE 50 AE 50	000000006	AO CF	DO	00018 0001F		MOVL MOVL MOVZBL	CDUSGL_TABLE, RO 16(RO), GSD_PSC+4 NAME, RO RO		
09	AE	0000*	CF	0000.	50	9A 06 28	00024 00029 00028		INCL MOVES	NAME, RO RO RO, NAME, GSD_PSC+8	1147	
		0000.	A6 66	09	6E AE OA	06 28 9E 9B	00032		INCL MOVC3 MOVAB MOVZBW	GSD, OBJECT_RAB+40 GSD_PSC+8, OBJECT_RAB+34 #10, OBJECT_RAB+34	1152	
		00000000		DE	A6 01	AO 9F FB	0003A 0003D 00040		ADDW2 PUSHAB CALLS	OBJECT RAB	1154	
			10	DE	50	E8	00047 0004A		CALLS BLBS PUSHAB	#1, SYSSPUT STATUS, 1\$ OBJECT RAB #1118420	1155	
		0000000G	00	00111004	8F 02	FB 04	0004D 00053 0005A	15:	PUSHL CALLS RET	#1118420 #2, CDU\$REPORT_RMS_ERROR	1160	,

; Routine Size: 91 bytes, Routine Base: \$CODE\$ + 024F

```
15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
OBJECT
VO4-000
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [CDU.SRC]OBJECT.B32;1
   1161
1162
1163
1164
1165
1166
1167
1168
1169
1170
1171
1172
1173
1176
1177
                                                               This routine is called to write a sequence of TIR records containing the table blocks. The blocks are packed
                                         Description:
                                                               together, resulting in a minimum number of records.
                                         Parameters:
                                                               None.
                                         Returns:
                                                               Nothing.
                                         Notes:
                                                               We assume the table blocks have been collected into a final,
                                                               contiguous area.
                                      ROUTINE write_table_records
                                                                                         : novalue
                                      = BEGIN
                                      local
                                                  status: long,
tir: block[obj$c_maxrecsiz,byte],
                         1180
                                                   table_offset: long,
                          181
                                                   command: pointer
                         1182
1183
1184
1185
                                                   command_length: long;
                                      ! Initialize the type byte of the TIR record.
                         1186
1187
                                      tir[obj$b_rectyp] = obj$c_tir;
                         1188
1189
                                        Write out the following sequence of TIR commands, which will set the location counter to the beginning of the psect.
                         1190
1191
                         1192
1193
                                                  stack address of beginning of psect
                                                  set location counter
                         1194
1195
                                        Any error is fatal.
                         1196
1197
                                     tir[1,0,8,0] = tir$c_sta_pb;
tir[2,0,8,0] = 0;
tir[3,0,8,0] = 0;
tir[4,0,8,0] = tir$c_ctl_setrb;
object_rab[rab$l_rbf] = tir;
object_rab[rab$w_rsz] = 1 + 3 + 1;
status = $put(rab=object_rab);
if not .status then
                         1198
                         1199
                         1200
1201
1202
1203
                         1204
1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
                                                  cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                                        Sit in a loop, going through once for each TIR record. The table offset pointer will advance along the CLI table as we write it cut.
                                      table_offset = 0;
                                      do (
                                                   ! Initialize the command pointer, which will advance along the TIR
                                                   ! record, to point past the type byte.
                                                  command = tir + 1;
```

```
OBJECT
VO4-000
                                                                                                                      VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [CDU. SRC]OBJECT.B32:1
                                                                                      15-Sep-1984 23:45:30
14-Sep-1984 11:58:25
    49912349967899012345967899011234567
                                              Each TIR record contains a sequence of Store Immediate commands.
                                             Loop once for each command.
                                           incru i from 1 to obj$c_maxrecsiz / 129 do (
                                                        The Store Immediate command is the negative of the length of the bytes being stored. That's 128 bytes unless we are at the end of the table.
                                                      command_length = minu{128, .cdu$gl_table[vec_l_table_size]-.table_offset);
command[0,0,8,1] = -.command_length;
                                                        Copy the table bytes following the Store Immediate
                                                      ! command.
                                                      ch$move(.command_length,.cdu$gl_table+.table_offset, command[1,0,0,0]);
                                                      ! Advance the table offset and the command pointer.
                                                      table_offset = .table_offset + .command_length;
command = .command + T+.command_length;
                                                      ! If we've finished copying the table, then get out of this
                                                      ! Loop.
                                                      if .table_offset eqlu .cdu$gl_table[vec_l_table_size] then exitloop;
                                           ):
                                           ! Write the TIR record. Any error is fatal.
    518
519
                                           object_rab[rab$w_rsz] = .command - tir;
status = $put(rab=object_rab);
    520
521
522
523
524
526
527
528
529
530
                                           if not .status then
                                                      cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                                           ! Loop until we have written the entire table.
                                ) until .table_offset eqlu .cdu$gl_table[vec_l_table_size];
                      1256
1257
1258
1259
                                return;
                                END:
```

```
OFFC 00000 WRITE_TABLE_RECORDS:
.WORD Save
                                                                                                         Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
-2052(SP), SP
#1026, TIR
#80, TIR+4
                                                                                                                                                                                                   1174
                                                              00002
00007
0000D
00012
00018
0001D
00021
                     SE AE CF
                                   F7FC
0402
50
04
                                                                                          MOVAB
                                                         9E
3C
9E
9E
9F
                                                 8F
8F
AE
OF
                                                                                                                                                                                                   1187
1200
1201
1202
1203
                                                                                          MOVZWL
                                                                                          MOVB
                                                                                                          TIR, OBJECT RAB+40
                                                                                          MOVAB
        0000
                                                                                          MOVW
                                                                                                         OBJECT RAB-
#1, SYSSPUT
RO, STATUS
                                   0000
                                                                                          PUSHAB
0000000G
                                                                                          CALLS
                                                                                          MOVL
```

O	2.1	F	CT
V	54	-	00

							1	S-Sep-	1984 23:45: 1984 11:58:	VAX-11 Bliss-32 V4.0-742 Page 25 DISK\$VMSMASTER:[CDU.SRC]OBJECT.B32;1	ge 21 (9)
			11	00000	6E CF	E8	0002B 00032 00038 0003F 00041 00048 00053 00057 00060 00067		BLBS PUSHAB	STATUS, 1\$ OBJECT_RAB #1118420 #2, CDU\$REPORT_RMS_ERROR TABLE_OFFSET CDU\$GL_TABLE, R7 16(R7), R10 TIR+1, COMMAND	1204
		000000000	00	00111004	02	FB	00038	16.	CALLS	#2, CDUSREPORT_RMS_ERROR	1210
			57	000000006	őğ	00	00041	10.	MOVL	CDUSGE_TABLE, R7	1210 1227
			56	10 05	AE	9E	00040	2\$:	MOVAB	TIR+1. COMMAND	1216 1221 1227
	50	00000080	5A 56 5B 6A 8F		6C80507E1904F088	DB40EE031BA0E8	00053 00057	3\$:	BLBS PUSHAB PUSHL CALLS CLRL MOVL MOVAB MOVAB MOVL SUBL3 CMPL BLEQU MOVL MOVL MNEGB MOVC3	TABLE OFFSET, (R10), RO RO, #T28	1227
			50	80	8F	94	00060	48.	MOVZBL	#128, RO	
01	A6		50 58 66 6947		58	8E 28	00067 0006A		MNE GB MOVC3	COMMAND_LENGTH, (COMMAND) COMMAND_LENGTH, (TABLE_OFFSET)[R7], -	1228
			59 56 6A	01	A846	CO 9E D1	00070 00073 00078		ADDL2 MOVAB CMPL	#1, I TABLE OFFSET, (R10), R0 R0, #T28 #128, R0 R0, COMMAND_LENGTH COMMAND_LENGTH, (COMMAND) COMMAND_LENGTH, (TABLE_OFFSET)[R7], - 1(COMMAND) COMMAND_LENGTH, TABLE_OFFSET 1(COMMAND_LENGTH, TABLE_OFFSET 1(COMMAND_LENGTH)[COMMAND], COMMAND TABLE_OFFSET, (R10) 5\$	1237 1238 1243
			OF		58 4846 907 58 58 58 65 65 65 65 65 65 65 65 65 65 65 65 65	13 06 01	0007B 0007D 0007F		BEQL INCL CMPL	I, #15	1221
0000	CF		50 56	04	AE	9E	00084	5\$:	MOVAB	TIR, RO	1248
0000	C	000000000		0000	CF	9F	0008E		PUSHAB	OBJECT RAB	1249
		00000000	6E 11		50	DO	00099		MOVL	RO, STATUS	1250
			"	0000'	CF	9F	0009E		PUSHAB	OBJECT RAB	1250 1251
		000000000	57 5A 6A	000000006	01 56 66 67 87 90 87 80	C901361BE3FB08FDB091	00073 00078 0007B 0007F 00082 00084 00088 00099 00099 0009F 000A3 000BP 000BB	6\$:	ADDL2 MOVAB CMPL BEQL INCL CMPL BLEQU MOVAB SUBW3 PUSHAB CALLS MOVL BLBS PUSHAB CALLS MOVL BLBS PUSHAB CALLS MOVL BLBS PUSHAB CALLS MOVL BLBS PUSHAB CALLS	TIR, RO RO, COMMAND, OBJECT_RAB+34 OBJECT_RAB #1, SYS\$PUT RO, STATUS STATUS, 6\$ OBJECT_RAB #1118420 #2, CDU\$REPORT_RMS_ERROR CDU\$GL_TABLE, R7 16(R7), R10 TABLE_OFFSET, (R10) 2\$	1255
			6A		8C	D1 12 04	000BB 000BE 000C0		CMPL BNEQ RET	TABLE_OFFSET. (R10)	1259

; Routine Size: 193 bytes, Routine Base: \$CODE\$ + 02AA

```
OBJECT
VO4-000
                                                                                                                        VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [CDU.SRC]OBJECT.B32;1
   ! Write the record into the object file. Any error is fatal.
                                                      object_rab[rab$l_rbf] = obj;
object_rab[rab$w_rsz] = 1 + 4 + 1+.symbol[0];
status = $put(rab=object_rab);
if not .status then
                                                                 cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                                                         Now we have to write a TIR record with the following sequence
                                                         of commands to store the user routine address in the command
                                                         block.
                                                                 stack address of user routine reference longword
                                                                 set location counter
                                                                 stack address of user routine
                                                                 store PIC data reference
   606
                                                      ! Build the fixed portion of the commands.
                                                      obj[obj$b_rectyp] = obj$c_tir;
obj[1,0,8,0] = tir$c_sta_pl;
obj[2,0,8,0] = 0;
obj[3,0,32,0] = .a_block - .cdu$gl_table + .a_block[cmd_w_image];
obj[7,0,8,0] = tir$c_ctl_setrb;
obj[8,0,8,0] = tir$c_sta_gbl;
    608
    609
   611
   615
                                                      ! Move the symbol in as the operand of the stack global.
   616
                                                      ch$move(1+.symbol[0],symbol[0], obj[9,0,0,0]);
   618
                                                      ! Finish the command sequence.
   620
621
622
623
626
626
627
628
633
633
633
633
633
633
                                                      obj[9 + 1+.symbol[0],0,8,0] = tir$c_sto_pidr;
                                                      ! Write the record into the object file. Any error is fatal.
                                                      object_rab[rab$w_rsz] = 1 + 6 + 1 + 1+1+.symbol[0] + 1;
status = $put(rab=object_rab);
if not .status then
                                                                 cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                                           ):
                                           ! Move on to the next table block.
                                           a_block = .a_block + .a_block[vec_w_size];
                                );
                      1364
1365
1366
                                return:
                                END:
```

							1	5-Ser	p-19 p-19	84 23:45 84 11:58	:30	DISK\$VMSMASTER: [CDU.SRC]OB.	JECT.B32;1 Page 24
			5B 56 50 50 50	0000 6F00 00000000 00000000	CF CE 00 00 A0 56	9E 000 00 01 1F	00002 00007 0000C 00013 0001A 0001E 00021			MOVAB MOVAB MOVL MOVL ADDL2 CMPL BLSSU RET	-256 (S CDU\$GL CDU\$GL	T RAB+34, R11 SP), SP L_TABLE, A BLOCK L_TABLE, R0), R0 CK, R0	1292 1293
			02	02	A6 04	91	00023	25:		CMPB	2(A_BL	LOCK), #2	: 1295
			02	14	A6	12 91 13	00023 00024 00028 0002E 00030 00037 00037	3\$:		CMPB BNEQ CMPB BEQL	20 (A_E	BLOCK), #2	1296
			57 58 6E	1A 04 0101	0095 A6 A746 8F	13 31 30 98 94	00033	48:		MOVZWL MOVAB	26(A E	BLOCK), R7 [A_BLOCK], R8	1299
			59	02	AE AE 68 59	94 84 9A				MOVW CLRB CLRW MOVZBL	GSD_SY GSD_SY (R8)	BLOCK), R7 [A BLOCK], R8 OBJ YM+1 YM+2 R9	1308 1310 1311 1315
05	AE	06	68 68 68		59 6E 68 06	0628 98 98 96 96 96 96 96	00047 0004A 0004C 00051 00055 00058			INCL MOVC3 MOVAB MOVZBW ADDW2 PUSHAB	R9 R9, (F OBJ, ((R8),	R8), GSD_SYM+4 DBJECT_RAB+40 OBJECT_RAB+34 BJECT_RAB+34 T_RAB YS\$PUT TATUS S, 5\$ T_RAB	1319 1320
		0000000G	00 5A 10	DE	59 668 668 668 668 668 668 668 668 668 66	9F FB DO E8 9F	00058 0005B 0005E 00065 00068			PUSHAB CALLS MOVL BLBS PUSHAB	MI. STATUS	T_RAB YS\$PUT TATUS 5,5\$	1321 1322 1323
		00000000G	00 6E	001110D4 0602	8F 02 8F	9DB0431B8A0B09	00074 0007B	5\$:		CALLS MOVW	#1538	OBJ	
03	50 AE		56	000000000	90	23	00080 00083 0008B			SUBL3	OBJ+2 CDU\$GL	TABLE, A_BLOCK, RO	1336 1338 1339
09	AE	07	AE 68 50	50	8F 59	9B 28	00090 00095 00094			MOVZBW MOVC3	#80, C	0BJ+7 R8), 0BJ+9	1340 1345 1349
		OA AE	40		1B	90 98	0009D			MOVB MOVZBW	#27, C	OBJ+10[RO]	1353
			6B 6B	DE	OB AB	AO 9F	000A5			ADDW2 PUSHAB	#11, 0	BJECT_RAB+34	1354
		0000000G	00 5A 10		8F 59 68 1B 68 0B 05 AB 05 AB 05 66 50 FF42	FB089FDB5031	00090 00095 0009A 0009D 000A2 000A5 000A8 000B2 000B3 000CB 000CB 000CB			CALLS MOVL BLBS PUSHAB	W1, SY RO, ST STATUS	TABLE, A_BLOCK, RO D, OBJ+3 DBJ+7 R8), OBJ+9 R0 DBJ+10[R0] OBJECT_RAB+34 DBJECT_RAB+34 TRAB CS\$PUT TATUS S, 6\$ TRAB COU\$REPORT_RMS_ERROR DCK), RO BLOCK	
				001110D4	AB 8F	9F DD	000B8 000BB			PUSHAB	0BJEC1 #11184	RAB 20	1355
		00000000G	00 50 56		02	FB 3C	000C1 000C8	6\$:		MOVZWL	M2. CD	DUSREPORT_RMS_ERROR	1361
			56		FF42	04 04	000CB 000CE 000D1			ADDL2 BRW RET	15 A_	BLOCK	1293 1366

; Routine Size: 210 bytes, Routine Base: \$CODE\$ + 036B

```
OBJECT
VO4-000
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [CDU.SRC]OBJECT.B32;1
                                                                                                                                                                                                          (11)
    Description: This routine is responsible for writing the end-of-module record at the end of the object file.
                                         Parameters:
                                                               None.
                                         Returns:
                                                               Nothing.
                                         Notes:
                                      ROUTINE write_eom_record
                                                                                         : novalue
                                      = BEGIN
                                      local
                                                  status: long,
eom: block[256,byte];
                                      ! Format the end-of-module record.
                                     eom[obj$b_rectyp] = obj$c_eom;
eom[eom$b_comcod] = 0;
                                      ! Write the record. All errors are fatal.
                                     object_rab[rab$l_rbf] = eom;
object_rab[rab$w_rsz] = 2;
status = $put(rab=object_rab);
if not .status then
    669
670
671
                          1396
1397
                                                  cdu$report_rms_error(msg(cdu$_writeerr),object_rab);
                         1398
1399
1400
                                     return:
                                     END:
                                                                                       0004 00000 WRITE_EOM_RECORD:
                                                                                                                                 Save R2
OBJECT RAB, R2
-256(SP), SP
#3, EOM
EOM, OBJECT RAB+40
#2, OBJECT RAB+34
R2
                                                                                                                                                                                                          1378
                                                                                              00002
00007
0000C
0000F
00013
00017
00019
00020
00023
00025
00028
00032 1$:
                                                                        0000°
                                                              52
5E
6E
A2
A2
                                                                                         MOVAB
                                                                                                                     MOVAB
                                                                                                                     MOVW
                                                                                                                     MOVAB
                                                                                                                     MOVW
                                                                                                                     PUSHL
                                                                                                                                 #1, SYS$PUT
STATUS, 1$
                                            0000000G
                                                                                                                     CALLS
                                                                                                                     BLBS
PUSHL
                                                                                                                                                                                                          1395
1396
                                                                                                                                 #1118420
                                                                  001110D4
                                                                                                                     PUSHL
                                            0000000G
                                                                                                                     CALLS
                                                                                                                                  #2, CDUSREPORT_RMS_ERROR
                                                                                                                                                                                                          1400
```

; Routine Size: 51 bytes,

Routine Base: \$CODE\$ + 043D

```
OBJECT
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[CDU.SRC]OBJECT.B32;1
: 674
                        1401 1 END
1402 0 ELUDOM
                                                                                                               .EXTRN LIB$SIGNAL
                                                          PSECT SUMMARY
            Name
                                                 Bytes
                                                                                              Attributes
                                                       1372 NOVEC, WRT, RD , NOEXE, NOSHR, LCL, REL, 35 NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, REL, 1136 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL,
                                                                                                                                 CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
    SOWNS
    SPLITS
SCODES
                                               Library Statistics
                                                                   ----- Symbols -----
                                                                                                                  Pages
                                                                                                                                   Processing
            File
                                                                                             Percent
                                                                   Total
                                                                                 Loaded
                                                                                                                  Mapped
                                                                                                                                   Time
     _$255$DUA28:[SYSLIB]LIB.L32:1
                                                                   18619
                                                                                                       0
                                                                                                                  1000
                                                                                                                                      00:01.9
                                                           COMMAND QUALIFIERS
            BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS$:OBJECT/OBJ=OBJ$:OBJECT MSRC$:OBJECT/UPDATE=(ENH$:OBJECT)
: Size:
: Run Ti
: Elapse
                       1136 code + 1407 data bytes
00:28.9
01:04.7
  Run Time:
  Elapsed Time: 01:04
Lines/CPU Min: 2914
Lexemes/CPU-Min: 29045
: Memory Used: 200 pages
: Compilation Complete
```

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